

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO. FILING DATE		ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/930,208 08/16/2001		8/16/2001	Osamu Itou	H6810.0028/P028 9208		
24998	7590	12/28/2005		EXAMINER		
		RO MORIN &	SEFER, A	SEFER, AHMED N		
2101 L Street, NW Washington, DC 20037				ART UNIT	PAPER NUMBER	
				2826		

DATE MAILED: 12/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Examiner			Application	No.	Applicant(s)					
A. Sefer - The MALLING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - If NO period for reply is specified above, the machine sheet of the replication is period for the period of the communication. - If NO period for reply is specified above, the machine sheet for replication is a specified in beautiful apply and will exply and will exply and will exply and will apply and will exply in State of the communication. - If NO period for reply is specified above, the machine sheet for replication will passed be the specified in beautiful apply and will exply and will exply in State of the communication. - If NO period for reply is specified above, the machine sheet for replication will passed be the specification is possible to communication. - If NO period for reply is specified above, the machine sheet for replication will passed be the specification is communication. - If NO period for reply is specified above, the machine sheet for replication will passed be the communication. - If NO period for reply is specified above, the machine sheet for replication is communication. - If NO period for reply is specified above, the machine sheet for replication is application is communication. - If NO period for reply is specified above, the machine sheet for replication for flat sheet for replication is communication. - If NO period for reply is specified above, the machine sheet for replication of the machine sheet for replication for machine sheet for replication for formal machine sheet for replication for formal passed and the formal passed sheet for formal passed sheet for formal passed sheet for formal passed sheet for formal passed sheet fo		065 - 4-4'- 0 0 0 0	09/930,208		ITOU ET AL	(and)				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Bedracinos from may be evaluable under the provision of 37 cFt 1.15(b), no revert, however, may a reply be finely filed 3 MO period for reply is specified above, the meaninum statutory parted will exply set will uspit soll. (b) MONTHS from the mailing date of this communication. Falluse to requir specified above, the meaninum statutory parted will exply set full explicit SIX (b) MONTHS from the mailing date of this communication. Falluse to reply willing this set or extended period for reply will. (b) statine, case the explication to severe distinct the adjustment. Set 97 cFt 1.17(4b). Status 1) □ Responsive to communication(s) filed on 13 October 2005. 2a) □ This action is FINAL. 2b) □ This action is non-final. 3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) 12.4.5.7-24.26.28.29 and 32-51 is/are pending in the application. 4a) □ Claim(s) 12.4.5 and 29 is/are rejected. 7) □ Claim(s) 12.4.28 and 29 is/are rejected. 7) □ Claim(s) 12.4.28 and 29 is/are rejected. 7) □ Claim(s) 12.4.28 and 29 is/are rejected. 9) □ The specification is objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to See 37 CFR 1.121(d). 11) □ The ordar ordar drawing sheet(s) including the correction is required if the drawing(s) is objected to See 37 CFR 1.121(d). 21) □ Althory ordar ordar ordar ordar ordar ordar ordar ordar ord		Oπice Action Summary	Examiner		Art Unit					
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ③ MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. ■ Substantions of times may be available under the provisions of 37 CFR 1.35(a). In or events, however, may a reply be timely filled ■ Hit No period for reply is specified above, the maximum statutory garled will apply and will expire xix (9) MONTHS from the malling date of this communication of the provision of the provis										
WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Edecisions of them mybe available under the provisions of 37 FR11-18(b). In ne event, however, may a raphy be timely filed offer SX (6) MONTHS from the mailing date of this communication. Falline to recy within the size or candidate of this communication. Falline to recy within the size or candidate of this communication. Falline to recy within the size or canded paridot for rey vol. by statistic, see the supplication become BARNOCHED GB U.S.C. § 133). Any reply received by the Ciffice later than three months after the mailing date of this communication, even if timely filed, may reduce any search patient than adjustment. See 37 CFR 1.77(b). Status 1) □ Responsive to communication(s) filed on 13 October 2005. 2a) □ This action is FiNAL. 2b) □ This action is non-final. 3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) 1.2.4.5.7-24.26.28.29 and 32-51 is/are pending in the application. 4) □ Claim(s) 1.2.4.28 and 29 is/are rejected. 7) □ Claim(s) 1.2.4.28 and 29 is/are rejected. 7) □ Claim(s) 1.2.4.28 and 29 is/are rejected. 7) □ Claim(s) 1.2.4.28 and 29 is/are rejected to. 9) □ The specification is objected to by the Examiner. 4pplication Papers 9) □ The specification is objected to by the Examiner. Application Papers 9) □ The drawing(s) filed on 1.5 is/are and 1.5 is/are withdrawn from consideration. Final the provided by the Examiner. Application Papers 9) □ The other or declaration is objected to by the Examiner. Application Papers 9) □ The specification is objected to by the Examiner. Application Papers 9) □ The oath or declaration is objected to by the Examiner. Application Final Paper Note (Pinal Paper Note) Note of the priority documents have been received in Application from the International Bureau (PCT Rule 17.2(a)). *S			n appears on the co	over sheet with the co	orrespondence ad	dress				
1) Responsive to communication(s) filed on 13 October 2005. 2a) ☐ This action is FINAL. 2b) ☑ This action is non-final. 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ☑ Claim(s) 1.2.4.5.7-24.26.28.29 and 32-51 is/are pending in the application. 4a) Of the above claim(s) 5.7-24.26.32 and 34-51 is/are withdrawn from consideration. 5) ☐ Claim(s) 1.2.4.28 and 29 is/are rejected. 7) ☐ Claim(s)	WHIC - Exter after - If NO - Failu Any (CHEVER IS LONGER, FROM THE MAILIN asions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication period for reply is specified above, the maximum statutory per to reply within the set or extended period for reply will, by seply received by the Office later than three months after the	IG DATE OF THIS FR 1.136(a). In no event, I on. eriod will apply and will ex statute, cause the applicati	COMMUNICATION however, may a reply be time pire SIX (6) MONTHS from to become ABANDONED	ely filed he mailing date of this co) (35 U.S.C. § 133).					
2a) This action is FINAL. 2b) This action is non-final. 3 Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4 Claim(s) 1,2,4,5,7-24,26,28,29 and 32-51 is/are pending in the application. 4a) Of the above claim(s) 5,7-24,26,32 and 34-51 is/are withdrawn from consideration. 5 Claim(s) is/are allowed. 6 Claim(s) 1,2,4,28 and 29 is/are rejected. 7 Claim(s) is/are objected to. 8 Claim(s) are subject to restriction and/or election requirement. Application Papers 9 The specification is objected to by the Examiner. 10 The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.65(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11 The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12 Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * ○ None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received.	Status									
2a) This action is FINAL. 2b) This action is non-final. 3 Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.2.4.5.7-24.26.28.29 and 32-51 is/are pending in the application. 4a) Of the above claim(s) 5.7-24.26.32 and 34-51 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1.2.4.28 and 29 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * O) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received.	1) 🛛	Responsive to communication(s) filed on	13 October 2005.							
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1,2,4,5,7-24,26,28,29 and 32-51 is/are pending in the application. 4a) Of the above claim(s) 5,7-24,26,32 and 34-51 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1,2,4,28 and 29 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(e) 1) Notice of References Cited (PTO-892) 1) Notice of Draftaperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-149 or PTO/SB/8) 5) Notice of Informal Patent Application (PTO-152)	-			-final.						
Application of Claims 4) □ Claim(s) 1.2.4.5.7-24.26.28.29 and 32-51 is/are pending in the application. 4a) Of the above claim(s) 5.7-24.26.32 and 34-51 is/are withdrawn from consideration. 5) □ Claim(s)	3)□	Since this application is in condition for all	owance except for	formal matters, pro-	secution as to the	e merits is				
4) Claim(s) 1.2.4.5.7-24.26.28.29 and 32-51 is/are pending in the application. 4a) Of the above claim(s) 5.7-24.26.32 and 34-51 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1.2.4.28 and 29 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) Notice of References Cited (PTO-148) or PTO/SB/08) 4) Interview Summary (PTO-413) Paper No(s)Mall Date 5) Notice of Informary Patent Application (PTO-152)		closed in accordance with the practice und	der <i>Ex parte Quayi</i>	le, 1935 C.D. 11, 45	3 O.G. 213.					
4a) Of the above claim(s) 5.7-24.26.32 and 34-51 is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) □ Claim(s) 1.2.4.28 and 29 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) □ The specification is objected to by the Examiner. 10) □ The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) □ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) □ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) □ Notice of Informal Patent Application (PTO-152)	Dispositi	on of Claims								
4a) Of the above claim(s) 5.7-24.26.32 and 34-51 is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) □ Claim(s) 1.2.4.28 and 29 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) □ The specification is objected to by the Examiner. 10) □ The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) □ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) □ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) □ Notice of Informal Patent Application (PTO-152)	4)⊠	Claim(s) 1,2,4,5,7-24,26,28,29 and 32-51	is/are pending in t	he application.						
6] Claim(s) 1.2.4.28 and 29 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) Attachment(s) 1) Notice of Profesperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Informal Patent Application (PTO-152)										
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) Attachment(s)	5)□	Claim(s) is/are allowed.								
Application Papers 9	6)⊠	· · · · · · · · · · · · · · · · · · ·								
Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☐ Notice of References Cited (PTO-892) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) ☐ Notice of Informal Patent Application (PTO-152)	7)	Claim(s) is/are objected to.								
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	8)□	Claim(s) are subject to restriction a	nd/or election requ	uirement.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☐ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) ☐ Notice of Informal Patent Application (PTO-152)	Applicati	on Papers								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Oraftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	9)[The specification is objected to by the Exa	miner.							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	10)	The drawing(s) filed on is/are: a)□	accepted or b)□	objected to by the E	xaminer.					
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		Applicant may not request that any objection to	the drawing(s) be h	eld in abeyance. See	37 CFR 1.85(a).					
Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 1 Notice of Informal Patent Application (PTO-152)										
12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) ☐ Notice of Informal Patent Application (PTO-152)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) Notice of References Cited (PTO-892)	Priority u	ınder 35 U.S.C. § 119								
2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		☐ All b)☐ Some * c)☐ None of:		- , ,	·(d) or (f).					
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) ☐ Notice of Informal Patent Application (PTO-152)										
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) * See the attached detailed Office action for a list of the certified copies not received. 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. Paper No(s)/Mail Date. Solution (PTO-152)										
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)										
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)	• • • • • • • • • • • • • • • • • • • •									
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)										
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)	Attachmen	t(s)								
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application (PTO-152)	_		4)	☐ Interview Summarv (PTO-413)					
	2) Notic 3) Inform	e of Draftsperson's Patent Drawing Review (PTO-948 nation Disclosure Statement(s) (PTO-1449 or PTO/SE	3) B/08) 5)	Paper No(s)/Mail Date Notice of Informal Page 1	e)-152)				

DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see page 2, filed 10/13/2005, with respect to claims 1 and 28 have been fully considered and are persuasive.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Okamoto et al. ("Okamoto") US PG-Pub 2002/0063826.

Okamoto discloses (see fig. 13, pars. 0161-0162 and par. 0177 and abstract) a liquid crystal display device having one polarizing plate 29 and having a normally closed display mode and being a reflection type device comprising: an upper substrate 34 and a lower substrate 33 disposed in a mutually facing relation; a liquid crystal layer 20 sandwiched between said upper substrate and said lower substrate having a twist angle which falls within the range recited in the claim; a light diffusive reflective electrode 36 having recesses and projections provided over said lower substrate; a phase plate 28 provided on an outer surface of said upper substrate; and wherein said one polarizing plate being provided on an outer surface of said phase plate. Given that all the recited elements of the device structure have been disclosed, the values of said recesses and projections and said birefringence could be easily obtained, yet Okomoto is silent in

regards to the product of a height of said recesses and projections and said birefringence.

However, one of ordinary skill in the art at the time the invention was made would have found it obvious to meet the recited product of a height of said recesses and projections said birefringence since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or working ranges involves only routine skill in the art. In re Aller, 105 USPQ 233. Furthermore, the specification contains no disclosure of either the critical nature of the claimed arrangement or any unexpected results arising therefrom. Where patentability is said to be based upon particular chosen dimensions or upon another variable recited in a claim, the applicant must show that the chosen dimensions are critical. In re Woodruff, 919 F.2d 1575, 1578, 16 USPQ2d 1934, 1936 (Fed. Cir. 1990).

As for claim 4, Okamoto discloses (see par. 0039) phase plate having a slow axis azimuth which falls within the range recited in the claim.

4. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Okamoto in view of Terashita et al. ("Terashita") US PG-Pub 2003/0058393.

Okomoto discloses (par. 0249 and abstract) the device structure as recited in the claim including a phase retardation value and a liquid crystal retardation value, but does not disclose an absorption axis.

Terashita discloses (pars. 0028-0031, 0100, par. 0273 and 0291) a liquid crystal display device having a normally closed display mode comprising a phase retardation value, a liquid crystal retardation value and a polarizing plate having an absorption axis value which fall within the range recited in the claim.

Art Unit: 2826

Therefore, it would have been obvious to one skilled in the art at the time the invention was made to incorporate Terashita's teachings since that would provide a wide viewing angle as taught by Terashita.

5. Claim 28 is rejected under 35 U.S.C. 103(a) as being unpatentable over Okamoto.

Okamoto discloses (see fig. 13, pars. 0161-0162 and par. 0177 and abstract) a method of fabricating a liquid crystal display device having one polarizing plate 29 and having a normally closed display mode and being a reflection type, said method comprising the steps of: providing an upper substrate 34 and a lower substrate 33 disposed in a mutually facing relation; providing a liquid crystal layer 20 sandwiched between said upper substrate and said lower substrate having a twist angle which falls within the range recited in the claim; providing a light diffusive reflective electrode 36 having recesses and projections provided over said lower substrate; providing a phase plate 28 provided on an outer surface of said upper substrate; wherein said one polarizing plate provided on an outer surface of said phase plate. Given that all the recited elements of the device structure have been disclosed, the values of said recesses and projections and said birefringence could be easily obtained, yet Okomoto is silent in regards to the product of a height of said recesses and projections and said birefringence. However, one of ordinary skill in the art at the time the invention was made would have found it obvious to meet the recited product of a height of said recesses and projections said birefringence since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or working ranges involves only routine skill in the art. In re Aller, 105 USPQ 233. Furthermore, the specification contains no disclosure of either the critical nature of the claimed arrangement or any unexpected results arising therefrom. Where patentability is said to be based

chosen dimensions or upon another variable recited in a claim, the applicant must show that the chosen dimensions are critical. In re Woodruff, 919 F.2d 1575, 1578, 16 USPQ2d 1934, 1936 (Fed. Cir. 1990).

6. Claim 29 is rejected under 35 U.S.C. 103(a) as being unpatentable over Okamoto in view of Terashita.

Okomoto discloses (par. 0249 and abstract) the a method of fabricating a device as recited in the claim including a phase retardation value and a liquid crystal retardation value, but does not disclose an absorption axis.

Terashita discloses (pars. 0028-0031, 0100, par. 0273 and 0291) a liquid crystal display device having a normally closed display mode comprising a phase retardation value, a liquid crystal retardation value and a polarizing plate having an absorption axis value which fall within the range recited in the claim.

Therefore, it would have been obvious to one skilled in the art at the time the invention was made to incorporate Terashita's teachings since that would provide a wide viewing angle as taught by Terashita.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to A. Sefer whose telephone number is (571) 272-1921.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915.

Application/Control Number: 09/930,208

Art Unit: 2826

Page 6

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ANS December 24, 2004